FIG. 3 is a block diagram to show the configuration of the system main body 100 shown in FIG. 2. Parts identical with or equivalent to those previously described with reference to FIG. 1 are denoted by the same reference numerals in FIG. 3 and will not be discussed again. Numeral 6 is an interface existing between a control section 5 and the network bus NB and numeral 7 is a switch device provided between the probe 1 and an ultrasonic transmission/reception circuit 2.

A10

Page 16, please delete the first full paragraph, and replace it with the following new paragraph:

Formerly, when trouble occurred in an ultrasonic inspection system, a maintenance person went to the installation place of the ultrasonic inspection system and diagnosed the trouble, as described above. However, in the embodiment, the host computer C diagnoses ultrasonic inspection system problems. For this purpose, the host computer C is provided with a self-diagnosis program. The self-diagnosis operation of the host computer C will be discussed with flowcharts shown in FIG. 4 and FIG. 5.

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IN THE CLAIMS:

Please enter the following amended claims:

A12

1. (Amended) An ultrasonic inspection system management system comprising multiple ultrasonic inspection systems each consisting of a probe and a system main body, a host computer, a transmission line for connecting said one or more ultrasonic inspection systems and said host computer, and a data storage section, characterized in that said host computer

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comprises data collection means for collecting data provided by said one or more ultrasonic inspection systems via said transmission line and storing the data in said data storage section.

A13

14. (Amended) The ultrasonic inspection system management system as claimed in claim 1 wherein said data collection means comprises probe data reception means for receiving data of said probe of a specific one of said ultrasonic inspection systems.

A14

16. (Amended) In a ultrasonic inspection system comprising a probe and a system main body comprising a ultrasonic transmission/reception circuit for exciting said probe and receiving a signal therefrom, a waveform processing circuit for processing a signal from said ultrasonic transmission/reception circuit, and a control section for controlling operation of said ultrasonic transmission/reception circuit and said waveform processing circuit, a ultrasonic inspection system diagnosis method comprising the steps of connecting said probe to said ultrasonic transmission/reception circuit, making said probe opposed to a test object, exciting said probe for outputting ultrasonics, collecting at least one of data output from said ultrasonic transmission/reception circuit and data output from said waveform processing circuit based on a reflected wave signal of the ultrasonics, disconnecting said probe from said ultrasonic transmission/reception circuit, collecting at least one of data output from said ultrasonic transmission/reception circuit and data output from said waveform processing circuit when a test signal is fed into said ultrasonic transmission/reception circuit, and diagnosing said ultrasonic inspection system based on the collected data.

17. (Amended) In an ultrasonic inspection system comprising a probe and a system main body comprising an ultrasonic transmission/reception circuit for exciting said probe and receiving a signal therefrom, a waveform processing circuit for processing a signal from said ultrasonic transmission/reception circuit, and a control section for controlling operation of said ultrasonic transmission/reception circuit and said waveform processing circuit, an ultrasonic inspection system diagnosis system comprising positioning means for making said probe opposed to a test object with said probe connected to said ultrasonic transmission/reception circuit, probe excitation means for exciting said probe with said probe opposed to the test object, first data collection means for collecting at least one of data output from said ultrasonic transmission/reception circuit and data output from said waveform processing circuit when said probe is excited by said probe excitation means, test signal output means for feeding a test signal into said ultrasonic transmission/reception circuit with said probe disconnected from said ultrasonic transmission/reception circuit, second data collection means for collecting at least one of data output from said ultrasonic transmission/reception circuit and data output from said waveform processing circuit when a test signal is output by said test signal output means, and determination means for determining whether or not an abnormality is contained in said ultrasonic inspection system based on the output data collected by said first data collection means and said second data collection means.

24. (Amended) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 21 comprising a storage section for storing data stored on said external storage medium.

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25. (Amended) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 21 comprising a display section for displaying the data stored on said external storage medium or said storage section.

29. (Amended) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 26 comprising a storage section for storing the data stored in said storage device.

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30. (Amended) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 26 comprising a display section for displaying the data stored in said storage device.

Please add the following new claims:

34. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 23 comprising a storage section for storing data stored on said external storage medium.

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35. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 22 comprising a display section for displaying the data stored on said external storage medium or said storage section.

36. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 23 comprising a display section for displaying the data stored on said external storage medium or said storage section.

37. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 24 comprising a display section for displaying the data stored on said external storage medium or said storage section.

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38. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 34 comprising a display section for displaying the data stored on said external storage medium or said storage section.

39. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 27 comprising a storage section for storing the data stored in said storage device.

40. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 28 comprising a storage section for storing the data stored in said storage device.

41. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 27 comprising a display section for displaying the data stored in said storage device.

42. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 28 comprising a display section for displaying the data stored in said storage device.

43. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 29 comprising a display section for displaying the data stored in said storage device.

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44. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 39 comprising a display section for displaying the data stored in said storage device.

45. (New) The ultrasonic inspection system having an ultrasonic probe data management function as claimed in claim 40 comprising a display section for displaying the data stored in said storage device.